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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 4506	
	10/536,743	05/27/2005	Estill Thone Hall Jr.	PU020471		
	24498 7	590 10/06/2006		EXAMINER		
	THOMSON LICENSING INC. PATENT OPERATIONS			DOWLING, WILLIAM C		
	PO BOX 5312 PRINCETON, NJ 08543-5312			ART UNIT	PAPER NUMBER	
				2851		

DATE MAILED: 10/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	· · · · · · · · · · · · · · · · · · ·		Application N	No.	Applicant(s)					
			10/536,743		HALL JR. ET AL.					
	Office Action Summary		Examiner		Art Unit					
			William C. Do		2851					
Period fo	The MAILING DATE of this commun or Reply	ication app	ears on the co	ver sheet with the co	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
1)⊠	Responsive to communication(s) filed on 27 May 2005.									
·		_	action is non-	final.						
/		,			secution as to the	e merits is				
-,-	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Dispositi	on of Claims									
4)⊠	Claim(s) 1-26 is/are pending in the a	application.								
•	4a) Of the above claim(s) is/are withdrawn from consideration.									
	Claim(s) is/are allowed.									
• —	Claim(s) <u>1-3,6-22 and 25</u> is/are reje	cted.			•					
·	Claim(s) <u>1-5,0-22 and 25</u> is/are rejected. 									
•	Claim(s) are subject to restrict		election requ	irement.						
Applicati	on Papers									
• •	The specification is objected to by the	o Evaminar	•	•						
,	•			r h) objected to h	v the Evaminer					
10)[2]	10) The drawing(s) filed on 27 May 2005 is/are: a) accepted or b) objected to by the Examiner.									
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
	ınder 35 U.S.C. § 119	o by the bin	G.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
•		for fordian	priority undor	25 LL C C & 110(a)	(d) or (f)					
	Acknowledgment is made of a claim	ior loreign	priority under	35 U.S.C. 9 119(a)	-(a) or (i).					
a)	a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.									
	<u> </u>				n No					
	2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage									
	application from the International Bureau (PCT Rule 17.2(a)).									
* 5	* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	•		41	Inton dani Commercia	(DTO 412)					
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (I	PTO-948)	4)	Interview Summary (Paper No(s)/Mail Da						
3) 🛛 Infon	nation Disclosure Statement(s) (PTO/SB/08)	,		Notice of Informal Pa	atent Application					
Pape	r No(s)/Mail Date <u>3/27/</u> 03		6)	Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1, 8-11, 13-14, 17-20 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Blackham et al. (5,978,142)

See figure 2

2. Claims 1, 6, 8-11, 13-14, 16-22, 25 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by WO 01/69941.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2-3, 12, 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 01/69941 in view of Parker (6,224,216).

WO 01/69941 discloses the invention substantially as claimed. WO 01/69941 teaches the use of digital imagers receiving pulse modulation in the form of DMD's. WO 01/69941 does not teach the use of LCOS systems as the modulators.

Parker et al. teaches a reflective projection device. As noted in Column 4 Lines 11-13 the device may alternatively use any of known types of reflective modulators, including DMD, LCOS or LCD.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device of WO 01/69941 by the substitution of a different type of reflective modulator, such as an LCOS as taught by Parker, because both types would enable grayscale modulation.

5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over WO 01/69941 and Parker and further in view of Hansen et al. (6,234,634).

WO 01/69941 discloses the invention substantially as claimed but does not teach the provision of a polarizing beam splitter in the light path.

Hansen et al. discloses the use of a PBS adjacent reflective light valves, such as LCOS's.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the combination of WO 01/69941 and Parker by the addition of a PBS when using polarization based reflective light valves in order to change the light path of the modulated light from the incident light.

Allowable Subject Matter

6. Claims 4-5, 23-24, 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Dowling whose telephone number is 571-272-2116. The examiner can normally be reached on MON-THURS.

8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on 571-272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571/272-1000.

William C. Dowling Primary Examiner Art Unit 2851

wcd